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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			C mplete if Kn wn		
			Application Number		
			Filing Date		
			First Named Inventor	Paul Rudolf	
			Group Art Unit		
			Examiner Name		
Sheet	1	of	5	Attorney Docket Number	121306.00002

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US-5,515,477	05/7/1996	J.G. Sutherland	
		US-4,974,202	11/27/1990	N. Mukohzaka	
		US-5,526,298	06/11/1996	N. Mukohzaka	
		US-4,701,879	10/20/1987	R.W.A. Scarr	
		US-5,568,416	10/22/1996	Kawana, et al.	
		US-5,485,418	01/16/1996	T. Hiraki and M. Hata	
		US-5,933,363	08/3/1999	T. Shindo	
		US-5,619,718	04/8/1997	N. Correa	
		US-5,483,480	01/9/1996	M. Yoneda	
		US-6,125,426	09/26/2000	M. Yoneda, et al.	
		US-5,740,274	04/14/1998	J. Ono and A. Osawa	
		US-5,699,449	12/16/1997	B. Javidi	
		US-5,524,177	06/4/1996	T. Suzuoka	
		US-6,067,536	05/23/2000	M. Maruyama, et al.	
		US- 5,511,134	04/23/1996	Y. Kuratomi and H. Ogawa	
		US- 6,272,241 B1	08/7/2001	G.D. Tattersall	
		US- 6,332,137 B1	12/18/2001	T. Hori, et al.	
		US- 6,192,351 B1	02/20/2001	K.C. Persaud	
		US- 5,857,030	01/5/1999	R.S. Gaborski, et al.	
		US- 5,696,838	12/9/1997	C.Chiu, et al.	

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Examiner Signature		Date Considered	
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Sheet	2	of	5
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First Named Inventor

Paul Rudolf

Group Art Unit

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		Number - Kind Code ² (if known)			
		US-5,995,652	11/30/1999	C.Chiu, et al.	
		US-6,038,338	03/14/2000	C.T. Nguyen	
		US-5,615,112	03/25/1997	O. R. Liu Sheng, et al.	
		US-5,819,007	10/6/1998	Z.F. Elghazzawi	
		US-5,924,052	07/13/1999	R. Palm	
		US-5,974,350	10/26/1999	L.I. Davis, Jr. et al.	
		US-6,094,646	07/25/2000	T.A. Runkler and J.C. Bezdek	
		US-5,893,085	04/6/1999	R.W. Phillips and J. L. Nettles	
		US-6,012,640	01/11/2000	L. Liu	
		US-6,272,476 B1	08/7/2001	B. Shi and G. Lin	
		US-5,748,852	05/5/1998	R.P.S. Mahler	
		US-6,337,926 B2	01/8/2002	K. Takahashi	
		US-5,757,287	05/26/1998	T. Kitamura, et al.	
		US-5,579,411	11/26/1996	G. Shou, et al.	
		US-5,671,292	09/23/1997	Y. Lee and N.S. Moon	
		US-6,078,884	06/20/2000	S.N. Downey	
		US-6,195,638	02/27/2001	G. Ilan and J. Goldberger	
		US-5,901,244	05/4/1999	M. Souma and K. Nagao	
		US-6,081,620	06/27/2000	E. J. Anderholm	
		US-6,278,798 B1	08/21/2001	K.G. Rao	

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		US-6,069,696	05/30/2000	A.M. McQueen, et al.	
		US-6,311,173B1	10/30/2001	B. Levin, et al.	
		US-6,327,581B1	12/4/2001	J.C. Platt	
		US-5,659,626	08/19/1997	J.R. Ort, et al.	
		US-5,799,098	08/25/1998	J.R. Ort, et al.	
		US-5,926,555	07/20/1999	J.R. Ort, et al.	
		US-5,995,641	11/30/1999	M. Yamaguchi	
		US-5,420,937	05/30/1995	P.S. Davis	
		US-5,960,101	09/28/1999	Z.P.P. Lo and B. Bavarian	
		US-5,869,822	02/09/1999	D. L. Meadows II and A. J. Pouratian	
		US-6,212,290B1	04/03/2001	P.C. Gagne and C.M. Puterko	
		US-6,108,437	08/22/2000	S.H. Lin	
		US-5,802,208	09/1/1998	C.I. Podilchuk and X. Zhang	
		US-5,699,449	12/16/1997	B. Javidi	
		US-RE36,041	01/12/1999	M. Turk and A.P. Pentland	
		US-6,292,575B1	09/18/2001	J.F. Bortolussi, et al.	
		US-6,301,370B1	10/9/2001	J.B. Steffens, et al.	
		US-6,118,889	09/12/2000	A. Izuno, et al.	
		US-4,495,644	01/22/1985	J.R. Parks, et al.	
		US-5,109,426	04/28/1992	J.R. Parks	

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Sheet 5 of 5

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Examiner Name	
Attorney Docket Number	121306.00002

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		T. JOACHIMS, "Text Categorization with Support Vector Machines, Proceedings of European Conference on Machine Learning(ECML), 1998, 7 pps.	
		Y. LECUN, et al., "Comparison of Learning Algorithms for Handwritten Digit Recognition," Proceedings ICANN'95-International Conference on Artificial Neural Networks, Vol. II, pages 1-9. EC2, 1995.	
		S. PANKANTI, S. PRABHAKAR AND A.K. JAIN, "On the Individuality of Fingerprints," IEEE Transactions on Pattern Analysis and Machine Intelligence, Vol. 24, No. 8, August 2002 (in Press). 8 pps.	
		PAUL G. RUDOLF, et al., "Computer Modeling Wave Propagation with a Variation of the Helmholtz-Kirchhoff Relation", Applied Optics, Vol. 29 No. 7, 1 March 1990, 6 pps.	

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